

## MMAE Book List - Fall 2009

Course #	Course Title	Instructor	Author (s)	Title	Edition	Publisher	ISBN
MMAE100	Intro to the Profession	Gosz, Kallend, Vural	<b>NO TEXT REQUIRED</b>	<b>NO TEXT REQUIRED</b>	N/A	N/A	N/A
MMAE200	Intro to Mechanics	Cammino	Hibbeler	Engineering Mechanics - Statics & Dynamics	11th	Pearson	978-0-1-3221509-1
MMAE201	Mechanics of Solids I	Meade, Cammino	Beer & Johnston	Vector Mechanics for Engineers - Statics	9th	McGraw-Hill	978-0-07-352923-0
MMAE202	Mechanics of Solids II	Nair	Beer, Johnston, Dewolf, & Mazurek	Mechanics of Materials	5th	McGraw-Hill	978-0-07-722140-9
MMAE305	Dynamics	Spenko	Mitiguy	Dynamics for Mechanical, Aerospace, and Biomedical Systems	N/A	Published by Author	To be Sold in Class
MMAE310	Fluid Mechanics with Lab	Rempfert, Wark	Munson, Young, Okishi, & Huebach Munson, Young, Okishi, & Huebach	Fundamentals of Fluid Mechanics w/ WileyPLUS (Hardback) or Fundamentals of Fluid Mechanics w/ WileyPLUS (Binder-Ready)	6th 6th	Wiley Wiley	978-0-470-26284-9
MMAE313	Fluid Mechanics with Lab	Rempfert, Wark	Munson, Young, Okishi, & Huebach Munson, Young, Okishi, & Huebach	Fundamentals of Fluid Mechanics w/ WileyPLUS (Hardback) or Fundamentals of Fluid Mechanics w/ WileyPLUS (Binder-Ready)	6th 6th	Wiley Wiley	978-0-470-26284-9
MMAE320	Thermodynamics	Ostrogorsky, Shadden	Moran & Shapiro	Fundamentals of Engineering Thermodynamics	6th	Wiley	978-0-471-78735-8
MMAE322	Heat and Mass Transfer	Clack	Incropera, DeWitt, Bergman, & Lavine	Fundamentals of Heat & Mass Transfer	6th	Wiley	978-0-471-45728-2
MMAE350	Computational Mechanics	Meade	Gilat & Subramaniam	Numerical Methods for Engineers & Scientists	1st	Wiley	978-0-471-73440-6
MMAE365 (1)	Structure & Properties of Materials I	Nash	Reed-Hill & Abbaschian	Physical Metallurgy Principles	3rd	Cengage	978-0-534-92173-6
MMAE365 (2)	Structure & Properties of Materials I	Nash	Porter, Easterling, & Sherif	Phase Transformations in Metals and Alloys	3rd	CRC Press	978-1-420-06210-6
MMAE370	Materials Laboratory II	Tin	<b>NO TEXT REQUIRED</b>	<b>NO TEXT REQUIRED</b>	N/A	N/A	N/A
MMAE371	Engineering Materials & Design	Mostovoy	Dowling	Mechanical Behavior of Materials	3rd	Prentice Hall	978-0-131-86312-5
MMAE430	Engineering Measurements	Raman	Figliola & Beasley	Theory and Design for Mechanical Measurements	4th	Wiley	978-0-471-44593-7
MMAE433	Design of Thermal Systems	Yagobi	<b>NO TEXT REQUIRED</b>	<b>NO TEXT REQUIRED</b>	N/A	N/A	N/A
MMAE441 (1)	Spacecraft & Aircraft Dynamics	Pervan	Wiesel	Spaceflight Dynamics	2nd	McGraw-Hill	978-0-070-70110-6
MMAE441 (2)	Spacecraft & Aircraft Dynamics	Pervan	Nelson	Flight Stability & Automatic Control	2nd	McGraw-Hill	978-0-070-46273-1
MMAE445 (1)	CAD/CAM with Numerical Control	Qian	Kurwoo Lee	Principles of CAD/CAM/CAE	1st	Addison-Wesley (Pearson)	978-0-201-38030-1
MMAE445 (2)	CAD/CAM with Numerical Control	Qian	Toogood & Zecher	Pro/Engineer Wildfire 4.0 Tutorial and MultiMedia CD	1st	Schroff Development Corp.	978-1-58503-415-4
MMAE452	Aerospace Propulsion	Wark	Hill & Peterson	Mechanics and Thermodynamics of Propulsion	2nd	Prentice Hall	978-0-201-14659-2
MMAE468	Intro to Ceramic Materials	Gonczy	Richerson	Modern Ceramic Eng. - Prop., Processing & Use in Design	3rd	CRC Press	978-1-574-44693-7
MMAE470	Intro to Polymer Science	Duval	Painter & Coleman	Polymer Science: An Intro. Text	2nd	CRC Press	978-1-566-76559-6
MMAE476	Materials Laboratory II	Tin	<b>NO TEXT REQUIRED</b>	<b>NO TEXT REQUIRED</b>	N/A	N/A	N/A
MMAE485	Manufacturing Processes	Tin	Kalpakjian & Schmid	Manufacturing Engineering and Technology	5th	Prentice Hall	978-0-131-48965-3
MMAE501 (1)	Engineering Analysis I	Cassel	Hildebrand	Methods of Applied Mathematics (Required)	2nd	Dover	486670023
MMAE501 (2)	Engineering Analysis I	Cassel	Kreyszig	Advanced Engineering Mathematics (Recommended)	9th	Wiley	978-0-471-48885-9
MMAE508	Perturbation Methods	Cassel	<b>NO TEXT REQUIRED</b>	<b>NO TEXT REQUIRED</b>	N/A	N/A	N/A
MMAE510	Fundamentals of Fluid Mechanics	Nagib	Panton	Incompressible Flow	3rd	Wiley	978-0-471-26122-3
MMAE516	Advanced Experimental Methods in Fluid Mechanics	Williams	<b>NO TEXT REQUIRED</b>	<b>NO TEXT REQUIRED</b>	N/A	N/A	N/A
MMAE524	Fundamentals of Combustion	Ruiz	<b>NO TEXT REQUIRED</b>	<b>NO TEXT REQUIRED</b>	N/A	N/A	N/A
MMAE530	Advanced Mechanics of Solids	Vural	<b>NO TEXT REQUIRED</b>	<b>NO TEXT REQUIRED</b>	N/A	N/A	N/A
MMAE532	Finite Element Methods II	Modares	<b>NO TEXT REQUIRED</b>	<b>NO TEXT REQUIRED</b>	N/A	N/A	N/A
MMAE540	Robotics	Spenko	Spong, Hutchinson & Vidyasagar	Robot Modeling and Control		Wiley	978-0-471-64990-8
MMAE544	Design Optimization	Qian	Arora	Introduction to Optimum Design	2nd	Elsevier/Academic Press	978-0-120-64155-0
MMAE546	Advanced Manufacturing Engineering	Wu	Kalpakjian & Schmid	Manufacturing Processes for Engineering Materials	5th	Prentice Hall	978-0-13-601959-6
MMAE557	Comp Intrgrated Manufacturing Systems	Cesarone	Groover	Automation, Production Systems, & Computer-Integrated Manufacturing	3rd	Prentice Hall	978-0-13-239321-8
MMAE562	Design of Modern Alloys	Nash	Porter, Easterling, & Sherif	Phase Transformations in Metals and Alloys	3rd	CRC Press	978-1-420-06210-6
MMAE565	Materials Laboratory II	Tin	<b>NO TEXT REQUIRED</b>	<b>NO TEXT REQUIRED</b>	N/A	N/A	N/A
MMAE589	Applications in Reliability Engineering I	Cesarone	O'Connor	Practical Reliability Engineering	4th	Wiley	978-0-470-84463-2
MMAE709	Overview of Reliability Engineering	Thakkar	<b>NO TEXT REQUIRED</b>	<b>NO TEXT REQUIRED</b>	N/A	N/A	N/A
MMAE715	Project Management for Technology Professionals	Cesarone	Verzuh	The Fast Forward MBA in Project Mang.	3rd	Wiley	978-0-470-24789-1
MS201	Materials Science	Kallend	Callister & Rethwisch	Fundamentals of Materials Science and Engineering	3rd	Wiley	978-0-470-12537-3